

B **other**

high melting point to successfully store the fission products, and thereafter

B placing the other fission products in a capsule container having a container core to hold the other fission products and an **other** outer cover to encase the fission products,

C said outer cover being a corrosion resistant material with sufficient strength, density, and thermal conductivity to avoid environmental corrosion over time, and being of a dimensional configuration such that radiation outside the container does not exceed safety limits, and such that the outside surface of the container is of a sufficiently high temperature to melt ice found in permanent icefields, yet is not sufficiently high to seriously enhance corrosion of the container.

B **3. (Amended) other**

B The method of claim 1 wherein the fission products **of the** **core** are oxides in a lead matrix.

A2 **4. (Amended)**

The method of claim 1 wherein the storing for a time sufficient to let short life materials decay is at least ten years.

A2 **5. (Amended)**

The method of claim 1 wherein the actinides are recycled for fuel use.

A3 **8. (Amended)**

A radiation waste container for use in storage of fission products separated from actinides in permanent ice, comprising: a corrosion resistant container having a core filled with fission product separated from the actinides, said fission product being in a metal matrix to successfully encapsulate and store said fission product,

03
~~11. (Amended)~~
said core and container being dimensionally configured such that radiation outside the container does not exceed safety limits and that the container surface reaches a temperature sufficiently high to melt ice, but not cause corrosion of the container surface.

04
~~11. (Amended)~~
The container of claim 8 wherein the metal matrix is deposited by electrochemical deposition.

05
~~12. (New)~~
A spherical radiation waste container for use in storage of fission products, separated from actinides in permanent ice, comprising:
a spherical corrosion resistant container having a core filled with said fission products separated from actinides, said fission products being in a metal matrix of spherical configuration to successfully encapsulate and store said fission products,
said core and said metal matrix being dimensionally configured to define a waste container such that the radiation outside the waste container does not exceed safety limits and that the container surface reaches a temperature sufficiently high to melt ice, but not cause corrosion of the container surface, nor render the temperature at the center too high.

06
~~13. (New)~~
The container of claim 12 wherein the metal matrix is a lead matrix.

07
~~14. (New)~~
The container of claim 12 wherein the corrosion resistant container is stainless steel.